Incorporating the latest in laser optical particle counting technology, Lighthouse designed the REMOTE 2014, 3014 and 5014 for continuous trouble-free operation.

With a sensitivity of 0.2, 0.3 and 0.5 micron, respectively, at a flow rate of 0.1 CFM (2.83 LPM), the REMOTE 2014, 3014 and 5014 provide real-time continuous data collection at a cost-effective price per point.

Using an external vacuum source, the compact REMOTE 2014, 3014 and 5014 provide versatile mounting options and can be installed where space is at a premium. The optional T/RH Probe can be mounted up to eight feet from the instrument by using an optional extension cable.

The REMOTE 2014, 3014 and 5014 integrate seamlessly into large facility monitoring and management systems and transfer up to 4 channels of simultaneous particle count and environmental data using RS-485 Modbus.

With the optional Network or Wireless Adapter, the REMOTE 2014, 3014 or 5014 can be connected to TCP/IP LANs.

Designed and built by Lighthouse - a name you can trust.

Lighthouse is an ISO 9001:2000 Registered Company

www.golighthouse.com
## Specifications:

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>3014</th>
<th>5014</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size Range:</strong></td>
<td>0.2 - 2.0μm</td>
<td>0.3 - 25.0μm</td>
<td>0.5 - 25.0μm</td>
</tr>
<tr>
<td><strong>Channel Sizes:</strong></td>
<td>Standard: 0.2, 0.3μm</td>
<td>Standard: 0.3, 0.5μm</td>
<td>Standard: 0.5, 5.0μm</td>
</tr>
<tr>
<td></td>
<td>Standard: 0.2, 0.5μm</td>
<td>Standard: 0.3, 1.0μm</td>
<td>Optional: 0.5, 1.0, 5.0μm</td>
</tr>
<tr>
<td></td>
<td>Optional: 0.2, 0.3, 0.5, 1.0μm</td>
<td>Standard: 0.3, 3.0μm</td>
<td>Optional: 0.5, 5.0, 10.0μm</td>
</tr>
<tr>
<td></td>
<td>Optional: 0.2, 0.3, 0.5, 2.0μm</td>
<td>Standard: 0.5, 5.0μm</td>
<td>Optional: 0.5, 5.0, 10.0, 25.0μm</td>
</tr>
<tr>
<td><strong>Counting Efficiency:</strong></td>
<td>50% @ 0.2μm; 100% for particles &gt; 0.3μm (per JIS)</td>
<td>50% @ 0.3μm; 100% for particles &gt; 0.45μm (per JIS)</td>
<td>50% @ 0.5μm; 100% for particles &gt; 0.75μm (per JIS)</td>
</tr>
</tbody>
</table>

Additional Channel Sizes are available. Please contact your Lighthouse Sales Engineer for more information about these options.

### Flow Rate:
0.1 CFM (2.83 LPM)

### Laser Source:
Laser Diode

### Zero Count Level:
<1 count / 5 minutes (per JIS)

### Concentration Limits:
2,000,000 Particles / ft³ @ 5% Coincidence Loss

### Calibration:
NIST Traceable

### Vacuum Requirements:
External Vacuum >18” (45.72) of Hg

### Air Flow:
Internally Monitored

### Communication Modes:
RS-485 MODBUS

### LED Indicators:
Power, Flow, Service, Sampling

### Data Storage:
250 Samples

### Connector:
RJ45

### Supporting Software:
LMS XChange, Lighthouse Monitoring System; LMS Express; Express RT and RT+; LMSNet

### Environmental Sensors:
(Optional) Temperature/Relative Humidity Probe 32 - 122°F (0-50°C)+/-1°F (0.5°C); 0 - 100% RH +/-2%

### External Alarm Output:
Normally Open Dry Contact Rated 0-60 V AC/DC 1 Amp

### Enclosure:
Stainless Steel

### Power:
24 VDC

### Dimensions:
1.7”(l) x 4.2”(w) x 3”(h) [4.3 x 10.7 x 7.6 cm]

### Weight:
0.97 lb (0.44 kg)

### Environmental Conditions:

**Operating:**
50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing

**Storage:**
14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing

### Accessories:

**Included:**
Operating Manual on CD

**Optional:**
Printed Operating Manual; RS-485 Hub with Power Supply; RS-232 Communication Cable and Adapter; USB to Serial Port Converter; Network Adapter; Wireless Network Adapter; Isokinetic Sampling Probes; Vacuum Tubing; Sample Tubing; Data Cable; Purge Filter; Power Supply; Temperature/Relative Humidity Probe; 8’ T/RH Probe Extension Cable; REMOTE Mounting Bracket; LMS XChange, LMS Express; Express RT and RT+, LMSNet software; RS-485 Communication Kit; High-Pressure Diffuser (not available for 2014).

### Manufactured by:
Lighthouse Worldwide Solutions

### Distributed by:
Lighthouse Worldwide Solutions reserves the right to change specifications without notice.

LWS PN 545401630-1 Rev 2